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/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:599800"
/clone_lib="Life Tech mouse embryo 15 5dpc 10667012"
/tissue_type="embryo"
/dev_stage="15.5dpc embryos"
/lab_host="DH10B"
/note="Organ: whole embryo; Vector: PCMV-SPORT2; Site:1;
Salt; Site:2; NotI; Cloned unidirectionally. Primer:
Oligo dt. 15.5dpc embryos. PCMV-SPORT2 vector."
BASE COUNT      10 a      11 c      6 g      7 t
ORIGIN

Query Match      0.88; Score 34; DB 10; Length 34;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2569 agaccacacacttactatctgtgtgacagca 2602
Db 1 AGACCCACACACTTACTTCTGTCGTCGACAGCA 34
|||||
|||||

RESULT 2
LOCUS      A2512195      35 bp      DNA      GSS      05-OCT-2000
DEFINITION IM0357004R Mouse 10kb plasmid UGCG1M library Mus musculus genomic
clone UGCG1M0357004 R. DNA sequence.
ACCESSION  A2512195
VERSION     A2512195.1 GI:10693511
KEYWORDS   GSS.
SOURCE     house mouse.
ORGANISM   Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognath; Muridae; Murinae; Mus.
REFERENCE  1 (bases 1 to 35)
AUTHORS   Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Haml,C.,
            Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
            M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausen,A.
            and Wright,D., Weis,R.
            Mouse whole genome scaffolding with paired end reads from 10kb
            plasmid inserts
            Unpublished (2000)
JOURNAL    Contact: Robert B. Weis
COMMENT    University of Utah Genome Center
            University of Utah
            Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
            84112, USA
            Tel: 801 585 5606
            Fax: 801 585 7177
            Email: ddunn@genetics.utah.edu
            Insert Length: 10000 Std Error: 0.00
            Plate: 0357 row: 0 column: 04
            Seq primer: CACACAGGAACACGCTATGACC
            Class: plasmid ends
            High quality sequence stop: 35.
            Location/Qualifiers
                1. 35
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/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UGCG1M0357004"
/clone_lib="Mouse 10kb plasmid UGCG1M library"
/sex="Male"
/lab_host="E. coli strain XL10-Gold, TI-resistant, F-"
/note="Vector: PMD42ny; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4

```

```

polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PMD42 (g1473211419b/AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
BASE COUNT      3 a      0 c      15 g      17 t
ORIGIN

Query Match      0.78; Score 31; DB 13; Length 35;
Best Local Similarity 100.0%; Pred. No. 0.00059;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3852 tctgtgtgtatgtgtgtgtgtgtgtgtgt 3882
Db 1 TGTGTGTGTGTATGTGTGTGTGTGTGTGTGT 31
|||||
|||||

RESULT 3
LOCUS      A2384928      48 bp      DNA      GSS      02-OCT-2000
DEFINITION IM0143110F Mouse 10kb plasmid UGCG1M library Mus musculus genomic
clone UGCG1M0143110 F. DNA sequence.
ACCESSION  A2384928
VERSION     A2384928.1 GI:10498628
KEYWORDS   GSS.
SOURCE     house mouse.
ORGANISM   Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognath; Muridae; Murinae; Mus.
REFERENCE  1 (bases 1 to 48)
AUTHORS   Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Haml,C.,
            Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
            M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausen,A.
            and Wright,D., Weis,R.
            Mouse whole genome scaffolding with paired end reads from 10kb
            plasmid inserts
            Unpublished (2000)
JOURNAL    Contact: Robert B. Weis
COMMENT    University of Utah Genome Center
            University of Utah
            Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
            84112, USA
            Tel: 801 585 5606
            Fax: 801 585 7177
            Email: ddunn@genetics.utah.edu
            Insert Length: 10000 Std Error: 0.00
            Plate: 0143 row: 1 column: 10
            Seq primer: CCGTGTAAACGACGCCAGT
            Class: plasmid ends
            High quality sequence stop: 48.
            Location/Qualifiers
                1. 48
FEATURES
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/clone_lib="Mouse 10kb plasmid UGCG1M library"
/sex="Male"
/lab_host="E. coli strain XL10-Gold, TI-resistant, F-"
/note="Vector: PMD42ny; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA

```



```

/organism="Mus musculus"
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/clone="U06C2M0.62M19"
/clone_id="Mouse 10kb plasmid U06C1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-gold, T1-resistant, F-"
/notice="Vector: pMD2401. Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
laboratory Mouse DNA Resource

```

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1. 40
/organism="Mus musculus"
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/db_xref="taxon:10090"
/clone="U06GCM0071A18"
/clone_1p="Mouse 10kb plasmid U06GCM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, r1-resistant, F-"
/note="Vector: pMDA2ny Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson

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	Query Match	0.7%: Score 28; DB 13;	Best Local Similarity	100.0%: Pred. No. 0.018;	Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
QY	3849	gtgctgtctgtctgtcatgtctgtgtgtct	3876		
DB	13	gtgtgtgtgtgtgtgtgtgtgtgtgtgtgt	40		

TITLE	Mouse whole genome scaffolding with paired end reads from 10kb
JOURNAL	Plasmid inserts
COMMENT	Unpublished (2000)
	Contact: Robert B. Weiss
	University of Utah
	University of Utah Genome Center
	Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
	84112, USA
	Tel: 801 585 5606
	Fax: 801 585 7177
	Email: duunn@genetics.utah.edu
	Insert Length: 10000 Std Error: 0.00
	Plate: 0159 row: I column: 17
	Seq primer: CACACAGGAACACACTTGACC
	Class: plasmid ends
	High quality sequence stop: 45.
FEATURES	Location/Qualifiers
source	1. 45

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Query Match      0.7%; Score 28; DB 13; Length 45;
Best Local Similarity 100.0%; Pred. No. 0.018;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3849 gttgtgtgtgtgtgtatgtgtgtgtgtgt 3876
      |||||
Db 16 gttgtgtgtgtgtgtgtgtgtgtgtgtgt 43

```

RESULT	9
AZ848637	
LOCUS	43 bp DNA GSS 21-FEB-2001
DEFINITION	CM019P09P9 Mouse 10kb plasmid UGCLM library Mus musculus genomic clone UGCCM019P09 R, DNA sequence.
ACCESSION	AZ848637
VERSION	AZ848637.1 GI:13031918
KEYWORDS	GSS.
SOURCE	house mouse.
ORGANISM	Mus musculus
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sclirognathi; Muridae; Murinae; Mus
REFERENCE	1 (bases 1 to 43)
AUTHORS	Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhausern,A. and Wright,D., Weiss,R.
TITLE	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL	Unpublished (2000)
COMMENT	Contact: Robert B. Weiss

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLc, UT
 84112, USA
 Tel.: 801 585 5606
 Fax: 801 585 7177
 Email: downnegenetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0149 row: P column: 09
 Seq primer: CACACAGAAACAGCCTATGACC
 Class: plasmid ends
 High quality sequence stop: 43.
 Location/Qualifiers
 1. 43
 source

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FEATURES
source
location/Qualifiers
1..43
/organism="Mus musculus"
/strain="C57BL/6J"
/Db_xref="taxon:10090"
/clone="U06C2M0149P03"
/clone_11b="Mouse 10kb plasmid U06C1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-
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1 a 0 c 21 g 22 t

BASE COUNT

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Query Match          0.68; Score 27; DB 13; Length 44;
Best Local Similarity 100.0%; Pred. No. 0.057;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3850 ttgtgtgtgtgtgtgtgtgtgtgtgtgtgt 3876
      |||||||||||||||||||||

```

RESULT 11
AA657267
LOCUS
DEFINITION
AA657267 49 bp mRNA EST
v227d07.1 Barstead mouse myotubes MPLNB5 Mus musculus cDNA clone
IMAGE:1121869 5' similar to SW:XP_E_CERA_E p33194 POSSIBLE DNA-REPAIR
PROTEIN XP-E', mRNA sequence.
AA657267
ACCESSION
VERSION
KEYWORDS
AA657267.1 GI:2593421
EST.

SOURCE	house mouse.
ORGANISM	Mus musculus
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 49)
AUTHORS	Merria,M., Hüller,T., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M., Schellenberg,K., Streptoe,M., Tan,F., Underwood,K., Moore,B., Theilstein,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and Waterston,R.
TITLE	The WashU-HHMI Mouse EST Project
JOURNAL	Unpublished (1996)
COMMENT	Contact: Merria M/Mouse EST project WashU-HHMI Mouse EST Project Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@wustl.edu This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information. MGI:611205 Seq primer: -28m13 rev2 ET from Amersham High quality sequence stop: 23. Location/Qualifiers
FEATURES	

/cell_line="C2C12"
 /lab_host="DH10B"
 /note="Vector: pT73D-Pac (Pharmacia) with a modified
 polylinker. Site_1: EcoRI; Site_2: NotI; 1st strand cDNA
 was primed with a Not I - Oligo(dT) primer [5',
 TGTTACGATCTGAGTGGAGCGCGCCGCTTTTCTTTTCTTTTCTTTT
 3']; double-stranded cDNA was ligated to Eco RI adaptors
 [AATTCGATCCTG], digested with Not I and cloned into the
 Not I and Eco RI sites of the modified pT73D vector.
 Library constructed by Bob Barstead. The C2C12 cell line
 (available from ATCC, catalog # CRL-1772) differentiates
 rapidly, forming contractile myotubes and producing
 characteristic muscle proteins."

BASE COUNT

5 a 14 c 13 g 17 t

ORIGIN

Query Match 0.68; Score 26; DB 10; Length 49;
 Best Local Similarity 100.0%; Pred. No. 0.18;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3092 ttccaccctggcgaggtgttcagt 3117
 |||||||
 Db 8 TTCACCTGGCGAGTGTGCAATGT 33

RESULT 12

AZ866837 29 bp DNA GSS 21-FEB-2001
 LOCUS 2M0177021F Mouse 10kb plasmid UNGC1M library Mus musculus genomic
 DEFINITION clone UNGC2M0177021 F, DNA sequence.
 AZ866837
 AZ866837.1 GI:13068543
 GSS.
 house mouse.
 Mus musculus

ORGANISM

Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 29)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausern, A.
 and Wright, D., Weiss, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)

REFERENCE

AUTHORS

JOURNAL

COMMENT

Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SIC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0177 row: 0 column: 21
 Seq primer: CGTTGTAAACGACGCGCAGT
 Class: plasmid ends
 High quality sequence stop: 29.
 Location/Qualifiers

FEATURES

source

1. 29
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UNGCM0177021"
 /clone_1lb="Mouse 10kb plasmid UNGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
 /note="Vector: pMD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a

BASE COUNT

3 a 0 c 12 g 14 t

ORIGIN

Query Match 0.68; Score 25; DB 13; Length 29;
 Best Local Similarity 100.0%; Pred. No. 0.53;
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3852 tctgtgtgtgtgtgtgtgtgtgtgt 3876
 |||||||
 Db 3 TGTGTGTGTGTGTGTGTGTGTGTGTGT 27

RESULT 13

AZ447539 38 bp DNA GSS 04-OCT-2000
 LOCUS IM0244E14R Mouse 10kb plasmid UNGC1M library Mus musculus genomic
 DEFINITION clone UNGC1M0244E14 R, DNA sequence.
 AZ447539
 AZ447539.1 GI:10599435
 GSS.
 house mouse.
 Mus musculus

ORGANISM

Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 38)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausern, A.
 and Wright, D., Weiss, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)

REFERENCE

AUTHORS

JOURNAL

COMMENT

Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SIC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0244 row: E column: 14
 Seq primer: CACACAGGAACACGATGACC
 Class: plasmid ends
 High quality sequence stop: 38.
 Location/Qualifiers

FEATURES

source

1. 38
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 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UNGCM0244E14"
 /clone_1lb="Mouse 10kb plasmid UNGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
 /note="Vector: pMD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA

(<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g1473j1141g1a129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

1 a 2 c 18 g 17 t

```

Query Match          0.6%; Score 25; DB 13; Length 43;
Best Local Similarity 100.0%; Pred. No. 0.55;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0

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QY      3852  tgtgtgtgtatgtgtgtgtgt 3876
          |||||
Db      8  TGTGTGTGTATGTGTGTGT 32

```

LOCUS	44 bp	DNA	GSS	02-OCT-2000
DEFINITION	1M0122G02F	Mouse 10kb plasmid	UUGC1M library	Mus musculus genomic
	clone UUGC1M0122G02 F,	DNA sequence.		

690.1 GI:13002694

mouse. musculuse

ases 1 to 43)

D. Aoyagi, A. Barber, M. Beacorn, T. Duval, B. Hamil, C.

Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.

whole genome scaffolding with paired end reads from 10kb

ished (2000)
ct: Robert B. Weiss

University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., Salt Lake City, UT 84142, USA

801 585 7177

Length: 1000 Row: 1 Column: 1

plasmaid ends

Location/Qualifiers

/organism-"Mus musculus

```

/db_xref="taxon:10090"

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/clone_11b="Mouse JKD plasmid UGCM library
/seq="M10"
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```
/not a="vector: Purified genomic DNA from M.
/1ad_hosl- E. coli strain ALIV 6010, 11 resistance, 2
```

Laboratory Mouse DNA Resource

musculus C57BL/6J (male) was obtained from the Jackson Laboratory DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g11473211419b1AR129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance.

Query_Match	0.58;	Score 23;	DB 13;	Length 39;
Best Local Similarity	100.0%;	Pred. No. 5.3;		
Matches 23;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

	RESULT	17
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LOCUS	AZ355175	
DEFINITION	AZ355175	42 bp DNA
ACCESSION	U0904D20	GSS
VERSION	Mouse 10kb plasmid UUGCM library Mus musculus genomic	02-OCT-2000
KEYWORDS	clone UUGCM0094D20 R, DNA sequence.	
SOURCE	AZ355175	
REFERENCE	AZ355175.1	GT:10467323
COMMENTARY	GSS:	

REFERENCE	AUTHORS	TITLE
1 (bases 1 to 42)	Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duvall, B., Hamll, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Kelly, M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausern, A. and Wright, D., Weiss, R.	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL
 COMMENT
 Unpublished (2000)
 Contact: Robert B. Welas
 University of Utah
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: duddn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0094 row: D column: 20
 Seq primer: CACACAGAAACACTATGACC
 Class: plasmid ends
 High quality sequence stop: 42.

```

FEATURES
source
location/Qualifiers
1.42
/organism="Mus musculus"
/strain="C57BL/6j"
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clone="UUCG1M0094D20"
clone_1lb="Mouse 10kb plasmid UUCG1M library"
/sex="Male"
/lab host="C014 strain x10-014 at

```

/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The ligated DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g114732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 1 a 0 c 20 g 21 t

ORIGIN

Query Match 0.5%; Score 23; DB 13; Length 42;
Best Local Similarity 100.0%; Pred. No. 5.3;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3854 tgcgtgtagtgcgtgtagtgcgtg 3876
|||||

Db 1 TGCTGTGATGCTGTGCTGTG 23

RESULT 18
TA371B11P 49 bp DNA GSS 13-DEC-2000
LOCUS T. brucei sheared genomic DNA clone 371b11, forward sequence,
DEFINITION genomic survey sequence.
ACCESSION AL495609
VERSION AL495609.1 GI:11871893
KEYWORDS GSS.
SOURCE Trypanosoma brucei.
ORGANISM Trypanosoma brucei.
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;

REFERENCE 1 (bases 1 to 49)
AUTHORS Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R., Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L., Melville, S.E., Rajadream, M.A., and Barrell, B.G.
TITLE Direct Submission
JOURNAL Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and nh@sanger.ac.uk

COMMENT Constructed at the Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from a cloned population of Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared to give a tight size distribution (4 kb). The v + i method used for the library construction is described in detail in Smith, H., and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaubin and B. Barrell, Oxford University Press, 1999).
Email: nelsayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T_brucei/.

FEATURES
Source Location/Qualifiers
1. 49

BASE COUNT 10 a 1 c 24 g 14 t

ORIGIN
/organism="Trypanosoma brucei"
/strain="TREU927"
/db_xref="taxon:5691"
/clone="371b11"

Query Match 0.5%; Score 23; DB 13; Length 49;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3855 gtgtgtagtgcgtgtagtgcgtgta 3877
|||||

Db 18 GCTGTGTATGCTGTGCTGTGTA 40

RESULT 19
A2426925 38 bp DNA GSS 03-OCT-2000
LOCUS 1M208E11R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION clone UUGC1M208E11 R, DNA sequence.
ACCESSION A2426925
VERSION A2426925.1 GI:10550938
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sclurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 38)
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Rellly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A., and Wright, D., Weiss, R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0208 row: E column: 11
Seq primer: CACACAGGAAACACGCTATGACC
Class: plasmid ends
High quality sequence stop: 38.

FEATURES
Source Location/Qualifiers
1. 38

/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M208E11"
/clone_11b="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The ligated DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g114732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 3 a 3 c 16 g 16 t


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RESULT 22
LOCUS A2415089
DEFINITION A2415089 21 bp DNA
clone U06C1M0189G17 R, DNA sequence.
ACCESSION A2415089
VERSION A2415089.1 GI:10539102
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
MUS musculus
Mammalia: Chordata: Craniata: Vertebrata: Euteleostomi:
Eumalia: Eutheria: Rodentia: Sciurognathi: Muridae: Murinae: Mus.
REFERENCE 1 (bases 1 to 21)
AUTHORS Dunn, P., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamli, C.,
Islam, H., Longacre, S., Mammad, M., Meenen, E., Petersen, T., Reilly,
M., Rose, M., Rose, R., Stokes, R., Tinsley, A., von Niederhausen, A.,
and Wright, D., Weisse, R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 1000 Std Error: 0.00
Plate: 0189 Row: G Column: 17
Seq primer: CACACGAGAACGCTAGACCC
Class: plasmid ends
High quality sequence stop: 21.
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Location/Qualifiers
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/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U06C1M0189G17"
/clone_1lb="Mouse 10kb plasmid U06C1M library"
/sex="Male"
/lab_host="F. Coli strain XL10-Gold, T1-resistant, F-"
/ab_host="F. Coli strain XL10-Gold, T1-resistant, F-"
/ab="Vector: pMD22ny; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
ligated DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD42 (g114732114[db|AF12072.1], a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance.
BASE COUNT 1 a 0 c 10 t
ORIGIN

```

	Query Match	0.58;	Score 21;	DB 13;	Length 21;
	Best Local Similarity	100.0%;	Pred. No. 48;		
	Matches	Conservative	0;	Mismatches	Indels
				Gaps	0;
OY	3849	gtctgctgtgtgtatgcgtg	3869		

RESULT 23	Db	1	GTGTCGTGTCGTGATGTCGTG 21
LOCUS A2766498			
DEFINITION 1M0564E08F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0564E08 F. DNA sequence.			
ACCESSION A2766498			
VERSION A2766498.1			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
COMMENT			
FEATURES			
source			
1. 25.			
/organism="Mus musculus"			
/strain="C57BL/6J"			
/db_xref="taxon:10090"			
/clone="UUGC1M0564E08"			
/clone_1lb="Mouse 10kb plasmid UUGC1M library"			
/sex="Male"			
/lab_host="F. COII strain XL10-Gold, TI-resistant, F."			
/note="vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The ligated DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g11473211419b1F19072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent F. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."			
BASE COUNT	2	a	0 c
ORIGIN	11	g	12 t

Query Match	0.58;	Score 21;	DB 13;	Length 25;
Best Local Similarity	100.0%;	Pred. No. 49;		
Matches	Conservative	0;	Mismatches	0;
			Indels	Gaps
0Y	3856	tgtgtgtatgtgtgtgtgt	3876	

OY 3856 tctgtgtgtgtgtgtgtgt 3876
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 DB 18 TGTGTGTGTGTGTGTGTGT 38

RESULT 26
 AZ487721 46 bp DNA GSS 05-OCT-2000
 LOCUS AZ487721/c
 DEFINITION 1M0317N04R Mouse 10kb plasmid UGCG1M library Mus musculus genomic
 clone UGCG1M0317N04 R, DNA sequence.
 ACCESSION AZ487721
 VERSION AZ487721.1 GI:10655728
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus

REFERENCE
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
 1 (bases 1 to 46)
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.,
 and Wright, D., Weiss, R.,
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: dunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0317 row: N column: 04
 Seq primer: CACACAGCAACAGCTATGACC
 Class: plasmid ends
 High quality sequence stop: 46.

TITLE
 JOURNAL
 COMMENT
 LOCATION/Qualifiers

FEATURES
 source
 1. 46
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UGCG1M0317N04"
 /clone_11b="Mouse 10kb plasmid UGCG1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: PMD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PMD42 (g11473211419b1AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

BASE COUNT
 ORIGIN

Query Match 0.5%; Score 20; DB 13; Length 46;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 3851 gtgtgtgtgtgtgtgtgt 3870
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 DB 32 GTGTGTGTGTGTGTGTGTGT 13

RESULT 27
 AZ482421 20 bp DNA GSS 04-OCT-2000
 LOCUS AZ482421
 DEFINITION 1M0307P01R Mouse 10kb plasmid UGCG1M library Mus musculus genomic
 clone UGCG1M0307P01 R, DNA sequence.
 ACCESSION AZ482421
 VERSION AZ482421.1 GI:10643486
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus

REFERENCE
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
 1 (bases 1 to 20)
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.,
 and Wright, D., Weiss, R.,
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: dunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0307 row: P column: 01
 Seq primer: CACACAGCAACAGCTATGACC
 Class: plasmid ends
 High quality sequence stop: 20.

TITLE
 JOURNAL
 COMMENT
 LOCATION/Qualifiers

FEATURES
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 1. 20
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UGCG1M0307P01"
 /clone_11b="Mouse 10kb plasmid UGCG1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: PMD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PMD42 (g11473211419b1AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

BASE COUNT
 ORIGIN

Query Match 0.5%; Score 19; DB 13; Length 20;

Best Local Similarity 100.0%; Pred. No. 4.7e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 3849 gtgtgtgtgtgtgtgtgt 3867
|||||
Db 2 GGTGTGTGTGTGTGTGTGT 20

RESULT 28
A2442363 27 bp DNA GSS 03-OCT-2000
LOCUS
DEFINITION IM035B17F Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGCIM035B17 F, DNA sequence.
ACCESSION A2442363
VERSION A2442363.1 GI:10566376
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniala; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 27)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
'M', Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

TITLE Unpublished (2000)
JOURNAL
COMMENT Contact: Robert B. Weiss
University of Utah
Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert length: 10000 Std Error: 0.00
Plate: 0236 row: B column: 17
Seq primer: CGTTGTAAACGACGCGCAGCT
Class: plasmid ends
High quality sequence stop: 27.

FEATURES

Location/Qualifiers
1..27
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGCIM035B17"
/clone_1lb="Mouse 10kb plasmid UUGCIM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: pMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD42 (g11473211419b/AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT
ORIGIN

12 a 14 c 1 g 0 t

Query Match 0.5%; Score 19; DB 13; Length 27;
Best Local Similarity 100.0%; Pred. No. 4.8e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 3844 tttgtgtgtgtgtgtgtgt 3862
|||||
Db 24 TGTGCTGTGTGTGTGTGT 6

RESULT 29
A2509672 34 bp DNA GSS 05-OCT-2000
LOCUS
DEFINITION IM035A18R Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGCIM035A18 R, DNA sequence.
ACCESSION A2509672
VERSION A2509672.1 GI:10690988
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniala; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 34)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
'M', Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

TITLE Unpublished (2000)
JOURNAL
COMMENT Contact: Robert B. Weiss
University of Utah
Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert length: 10000 Std Error: 0.00
Plate: 0352 row: A column: 18
Seq primer: CACACAGAAACGACGATGACC
Class: plasmid ends
High quality sequence stop: 34.

FEATURES

Location/Qualifiers
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/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGCIM035A18"
/clone_1lb="Mouse 10kb plasmid UUGCIM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: pMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD42 (g11473211419b/AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT
ORIGIN

0 a 1 c 17 g 16 t

Query Match 0.5%; Score 19; DB 13; Length 34;
 Best Local Similarity 100.0%; Pred. No. 4.9e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3844 tctgcgtgtgtgtgtgtgt 3862
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 DB 9 TGTGCGTGTGTGTGTGTGT 27

RESULT 30

A2771845 34 bp DNA GSS 16-FEB-2001
 LOCUS A2771845
 DEFINITION 1M0574M14F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC1M0574M14 F, DNA sequence.

ACCESSION A2771845
 VERSION A2771845.1 GI:12894532
 KEYWORDS GSS.

SOURCE house mouse.
 ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 34)
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
 M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
 and Wright,D., Weiss,R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts

TITLE

Unpublished (2000)

JOURNAL Contact: Robert B. Weiss
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
 84112, USA

COMMENT

Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunne@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0574 row: M column: 14
 Seq primer: CGTTGTAAACGACGCCAGT
 Class: plasmid ends
 High quality sequence stop: 34.
 Location/Qualifiers

FEATURES

source

1. 34
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC1M0574M14"
 /clone_1lb="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: PMD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PMD42 (9114732114[gb]AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance.

BASE COUNT
 ORIGIN

2 a 0 c 16 g 16 t

Query Match 0.5%; Score 19; DB 13; Length 34;
 Best Local Similarity 100.0%; Pred. No. 4.9e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3855 gctgtgtatgtgtgtgtgt 3873
 ||||||||||||||||||
 DB 10 GTGTGTATGTGTGTGTGTG 28

RESULT 31

A2774656 34 bp DNA GSS 16-FEB-2001
 LOCUS A2774656
 DEFINITION 2M0004K10F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC2M0004K10 F, DNA sequence.

ACCESSION A2774656
 VERSION A2774656.1 GI:12900163
 KEYWORDS GSS.

SOURCE house mouse.
 ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 34)
 Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
 Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
 M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
 and Wright,D., Weiss,R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts

TITLE

Unpublished (2000)

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 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
 84112, USA

COMMENT

Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunne@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0004 row: K column: 10
 Seq primer: CGTTGTAAACGACGCCAGT
 Class: plasmid ends
 High quality sequence stop: 34.
 Location/Qualifiers

FEATURES

source

1. 34
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M0004K10"
 /clone_1lb="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: PMD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PMD42 (9114732114[gb]AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance.

BASE COUNT
 ORIGIN

6 a 0 c 11 g 17 t

ORIGIN

Query Match 0.5%; Score 19; DB 13; Length 34;
 Best Local Similarity 100.0%; Pred. No. 4.9e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3858 tgcgtatgtgtgtgtgtgt 3876
 ||||||||||||||||
 DB 13 TGTGTATGTGTGTGTGTGT 31

RESULT 32

A2462065

LOCUS 41 bp DNA GSS 04-OCT-2000
 DEFINITION 1M026911F Mouse 10kb plasmid UNGC1M library Mus musculus genomic
 clone UNGC1M026911F, DNA sequence.

ACCESSION A2462065
 VERSION A2462065.1 GI:10620190
 KEYWORDS GSS.

SOURCE house mouse.
 ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 41)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamll, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
 and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts

JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0269 row: L column: 11
 Seq primer: CGTGTAAACGACGCCACAG
 Class: plasmid ends
 High quality sequence stop: 41.
 Location/Qualifiers

FEATURES

source

1..41
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UNG1M026911"
 /clone_1lb="Mouse 10kb plasmid UNGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: pMD29nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of pMD2 (g11473211419b/AP129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

BASE COUNT 0 a 3 c 20 g 18 t
 ORIGIN

Query Match 0.5%; Score 19; DB 13; Length 41;
 Best Local Similarity 100.0%; Pred. No. 5e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3844 tgcgcgtgtgtgtgtgtgt 3862
 ||||||||||||||||
 DB 9 TGTGCGTGTGTGTGTGTGT 27

RESULT 33

A2491290

LOCUS 44 bp DNA GSS 05-OCT-2000
 DEFINITION 1M0324414R Mouse 10kb plasmid UNGC1M library Mus musculus genomic
 clone UNGC1M0324414 R, DNA sequence.

ACCESSION A2491290
 VERSION A2491290.1 GI:10662850
 KEYWORDS GSS.

SOURCE house mouse.
 ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 44)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamll, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
 and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts

JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0324 row: H column: 14
 Seq primer: CACACAGGAAACGCTATGACC
 Class: plasmid ends
 High quality sequence stop: 44.
 Location/Qualifiers

FEATURES

source

1..44
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UNG1M0324414"
 /clone_1lb="Mouse 10kb plasmid UNGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: pMD29nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of pMD2 (g11473211419b/AP129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

BASE COUNT 19 a 18 c 6 g 1 t
 and selected for ampicillin resistance.
 ORIGIN

Query Match 0.5%; Score 19; DB 13; Length 44;
 Best Local Similarity 100.0%; Pred. No. 5e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3844 tctgcgtgtgtgtgtgtgt 3862
 |||||
 Db 41 TGTGCGTGTGTGTGTGT 23

RESULT 34
 A2506222 44 bp DNA GSS 05-OCT-2000
 LOCUS
 DEFINITION 1M0347H12F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC1M0347H12 F, DNA sequence.
 A2506222
 ACCESSION A2506222.1 GI:10687538
 VERSION
 KEYWORDS
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE
 AUTHORS 1 (bases 1 to 44)
 Dunn, D., Royyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.,
 and Wright, D., Weiss, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts

JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss
 University of Utah Genome Center
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Insert 0347 row: H column: 12
 Seq primer: CGTGTAAACGACGCGCAGT
 Class: plasmid ends
 High quality sequence stop: 44.
 Location/Qualifiers

FEATURES
 source 1..44
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC1M0347H12"
 /clone_11b="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: PWD42ny; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adapted DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PWD42 (g1147321149b|AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adapted mouse DNA was annealed to
 adapted vector DNA, and transformed into

BASE COUNT 0 a 8 c 22 g 14 t
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance.
 ORIGIN

Query Match 0.5%; Score 19; DB 13; Length 44;
 Best Local Similarity 100.0%; Pred. No. 5e+02;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3844 tctgcgtgtgtgtgtgtgt 3862
 |||||
 Db 25 TGTGCGTGTGTGTGTGT 43

RESULT 35
 A2789401 46 bp DNA GSS 16-FEB-2001
 LOCUS
 DEFINITION 2M0037F12F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC2M0037F12 F, DNA sequence.
 A2789401
 ACCESSION A2789401.1 GI:12930185
 VERSION
 KEYWORDS
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE
 AUTHORS 1 (bases 1 to 46)
 Dunn, D., Royyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.,
 and Wright, D., Weiss, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts

JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss
 University of Utah Genome Center
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Insert 0037 row: F column: 12
 Seq primer: CGTGTAAACGACGCGCAGT
 Class: plasmid ends
 High quality sequence stop: 46.
 Location/Qualifiers

FEATURES
 source 1..46
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M0037F12"
 /clone_11b="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: PWD42ny; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adapted DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PWD42 (g1147321149b|AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adapted mouse DNA was annealed to
 adapted vector DNA, and transformed into

1/ab_host-E. coli strain XL10-gold, T1-resistant, F⁻/nove-Vector: pMD22uv. Purified genomic DNA from *M. musculus* C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD2 (G11472114/gp1A12072.1), a copy-number inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and

/lab host-E. coli strain XL10-Gold, T1-resistant, F⁻/note-Vector: pMD229; purified genomic DNA from *M. musculus* C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt-end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD2 (gll147321149b|AF128072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated

BASE COUNT 15 a 24 c 9 g 1 t
ORIGIN

Query Match 0.5%; Score 19; DB 13; Length 49;
Best Local Similarity 100.0%; Pred. No. 5.1e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3844 tttgctgtgtgtgtgtgt 3862
|||||
DB 22 TGTGCTGTGTGTGTGTGT 4

RESULT 38
AZ96577 26 bp DNA GSS 27-APR-2001
LOCUS
DEFINITION 2M28216R Mouse 10kb plasmid UUGC2M library Mus musculus genomic
clone UUGC2M28216 R, DNA sequence.

ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
house mouse.
Mus musculus

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 26)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0282 row: L column: 16
Seq primer: CACACAGAAACAGCATGACC
Class: plasmid ends
High quality sequence stop: 26.

FEATURES

source

1. 26
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M28216"
/clone_lib="Mouse 10kb plasmid UUGC2M library"
/sex="Female"
/lab_host="E. coli strain XL10-Gold, TI-resistant, F-"
/note="Vector: PMD42nv. Purified genomic DNA from M.
musculus C57BL/6J (female) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PMD42 (g147321141gb1AF129072.1), a copy-number

BASE COUNT 1 a 1 c 11 g 13 t
ORIGIN

Query Match 0.4%; Score 18; DB 13; Length 26;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3853 gtgtgtgtgtgtgtgtgt 3870
|||||
DB 9 GTGTGTGTGTGTGTGTGT 26

RESULT 39
AZ646963 27 bp DNA GSS 14-DEC-2000
LOCUS
DEFINITION 1M051C13F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC1M0513C13 F, DNA sequence.

ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
house mouse.
Mus musculus

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 27)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0513 row: C column: 13
Seq primer: CGTTGTAAACAGCAGCGCAGT
Class: plasmid ends
High quality sequence stop: 27.

FEATURES

source

1. 27
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0513C13"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. coli strain XL10-Gold, TI-resistant, F-"
/note="Vector: PMD42nv. Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative

of pMD42 (g11473211419b/AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 3 a 0 c 11 g 13 t

ORIGIN

Query Match 0.4%; Score 18; DB 13; Length 27;
Best Local Similarity 100.0%; Pred. NO. 1.5e+03;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3849 ggtgtgtgtgtgtgtgtgt 3866-
Db 3 GTGTGTGTGTGTGTGTGT 20

RESULT 40
LOCUS R14943 31 bp mRNA EST 13-APR-1995
DEFINITION yf94g04.r1 Soares infant brain INTB Homo sapiens cDNA clone IMAGE:30229 5' similar to gb:DI4838 GLIA-ACTIVATING FACTOR PRECURSOR (HUMAN); mRNA sequence.

ACCESSION R14943
VERSION R14943.1 GI:769216
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 31)
AUTHORS Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Maita, M., Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevasakis, E., Waterston, R., Williamson, A., Wohldmann, P. and Wilson, R.

TITLE The WashU-Merck EST Project
JOURNAL Unpublished (1995)
COMMENT Contact: Wilson_RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@wustl.edu

Insert Size: 1369
High quality sequence starts: 1 High quality sequence stops: 1
Source: IMAGE Consortium, LNL This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.lnl.gov) for further information. Trace considered overall poor quality
Insert Length: 1369 Std Error: 0.00
Seq primer: M13RP1
High quality sequence stop: 1.
Location/Qualifiers
1. 31
/organism="Homo sapiens"
/db_xref="GDB:402576"
/db_xref="taxon:9606"
/clone="IMAGE:30229"
/clone_1lb="Soares infant brain INTB"
/sex="female"
/dev_stage="73 days post natal"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: whole brain; Vector: lafmid BA; site: 1: Not 1; site: 2: Hind III; 1st strand cDNA was primed with a Not 1 - oligo(dT) primer [5', AACCTGAGAAATTCGGCGCCAGCAATTTTTTTTTTTTTTTT 3']; double-stranded cDNA was ligated to Hind III adaptors (Pharmacia); digested with Not I and directionally cloned into the Not I and Hind III sites of the lafmid BA vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 3 a 0 c 14 g 13 t 1 others

ORIGIN

Query Match 0.4%; Score 18; DB 11; Length 31;
Best Local Similarity 100.0%; Pred. NO. 1.5e+03;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3859 ggtgtgtgtgtgtgtgtgt 3876-
Db 8 GTGTGTGTGTGTGTGTGT 25

RESULT 41
LOCUS A2346705 31 bp DNA GSS 29-SEP-2000
DEFINITION IM0082M02F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0082M02 F, DNA sequence.

ACCESSION A2346705
VERSION A2346705.1 GI:10425942
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 31)
AUTHORS Dunn, D., Aoyagi, A., Barber, M., Becorn, T., Duval, B., Hamli, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Petersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tinney, A., von Niederhausen, A. and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLG, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
Plate: 0082, row: M column: 02
Seq primer: CGTGTAAACGACGCGCAGT
Class: plasmid ends
High quality sequence stop: 31.
Location/Qualifiers
1. 31
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0082M02"
/clone_1lb="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: pMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g11473211419b/AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells

BASE COUNT 0 a 4 c 15 g 12 t
 and selected for ampicillin resistance."

Query Match 0.4% Score 18; DB 13; Length 31;
 Best Local Similarity 100.0%; Pred. No. 1.5e+03;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3845 gtgcgtgtgtgtgtgtgt 3862
 |||||
 DB 8 gtgcctgtgtgtgtgtgt 25

RESULT 42
 AA789803 34 bp. mRNA EST 06-FEB-1998
 LOCUS v79f06.r1 Barstead mouse irradiated colon MFLR87 Mus musculus cDNA
 DEFINITION clone IMAGE:1177379.5' similar to SW:XP_CERAE_P33194 POSSIBLE
 DNA-REPAIR PROTEIN XP-E'; mRNA sequence.
 ACCESSION AA789803
 VERSION AA789803.1 GI:2849923
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 34)
 Matra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
 Geisel, S., Kucada, T., Lacy, M., Le, M., Martin, J., Morris, M.,
 Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
 Teising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
 Waterston, R.

TITLE The Washu-HMI Mouse EST Project
 JOURNAL Unpublished (1996)
 COMMENT Contact: Matra M/Mouse EST Project
 Washu-HMI Mouse EST Project
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: mouseest@wustl.edu
 This clone is available royalty-free through LINT; contact the
 IMAGE Consortium (info@image.lnl.gov) for further information.
 MGI:635227

Trace considered overall poor quality
 Possible reversed clone: similarity on wrong strand
 Seq primer: -28ml3 rev2 ET from Amersham
 High quality sequence stop: 1.

FEATURES
 source location/Qualifiers

1. 34
 /organism="Mus musculus"
 /strain="FVB/N"
 /db_xref="taxon:10090"
 /clone="IMAGE:1177379"
 /clone_11d="Barstead mouse irradiated colon MFLR87"
 /dev_stage="8 weeks"
 /lab_host="DH10B"
 /note="Vector: pT73D-Pac (Pharmacia) with a modified
 polylinker. Site_1: EcoRI; Site_2: NotI. Tissue obtained
 from 8 week old mouse. Colon was harvested 72 hours after
 irradiation with 1400 Gys. 1st strand cDNA was primed
 with a Not I - oligo(dT) primer
 [5'GTTCAGATCTGAGAGGAGGAGGCGCCCTTTTCTTTTCTTTTCTTTT
 T 3'] double-stranded cDNA was ligated to Eco RI
 adaptors [AATTCGATCTTG], digested with Not I and cloned
 into the Not I and Eco RI sites of the modified pT73D
 vector. Library constructed by Bob Barstead."
 BASE COUNT 13 a 11 c 6 g 4 t
 ORIGIN

Query Match

0.4%; Score 18; DB 10; Length 34;

Best Local Similarity 100.0%; Pred. No. 1.5e+03;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 3341 aagacgaaccagccaca 3358
 |||||
 DB 17 aagacgaaccagccaca 34

RESULT 43
 A2990901 34 bp. DNA GSS 27-APR-2001
 LOCUS 2M0274N14R mouse 10kb plasmid UGC2M library Mus musculus genomic
 DEFINITION clone UGC2M0274N14 R, DNA sequence.
 ACCESSION A2990901
 VERSION A2990901.1 GI:13862128
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 34)

REFERENCE Dunn, D., Aoyagi, A., Barber, M., Baecorn, T., Duval, B., Hamll, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A.
 and Wright, D., Weiss, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 TITLE Unpublished (2000)
 JOURNAL Contact: Robert B. Weiss
 COMMENT University of Utah
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0274 row: N column: 14
 Seq primer: CACACAGAAACACTATGAC
 Class: plasmid ends
 High quality sequence stop: 34.

FEATURES
 source location/Qualifiers

1. 34
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UGC2M0274N14"
 /clone_11d="Mouse 10kb plasmid UGC2M library"
 /sex="Female"
 /lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: PMD42nv. Purified genomic DNA from M.
 musculus C57BL/6J (female) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of pM42 (g114732114[gb]1129072.1), a copy-number
 inducible derivative of plasmid RI. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."
 BASE COUNT 3 a 3 c 13 g 15 t
 ORIGIN

Query Match 0.4%; Score 18; DB 13; Length 34;
 Best Local Similarity 100.0%; Pred. No. 1.5e+03;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 3859 gtgtatgtgtgtgtgtgtgt 3876
 |||
 Db 2 GTGTATGTGTGTGTGTGT 19

RESULT 44

A2991583/c

LOCUS A2991583 37 bp DNA GSS 27-APR-2001
 DEFINITION 2M0275G21R Mouse 10kb plasmid UUGC2M library Mus musculus genomic

ACCESSION A2991583

clone UUGC2M0275G21 R, DNA sequence.

VERSION A2991583.1

GI:13862810

KEYWORDS GSS.

house mouse.

Mus musculus

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 37)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., and Wright, D., Weis, R.
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
 Unpublished (2000)
 Contact: Robert B. Weis
 University of Utah Genome Center
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0275 row: G column: 21
 Seq primer: CACACAGGAAACAGCATGAC
 Class: plasmid ends
 High quality sequence stop: 37.
 Location/Qualifiers

FEATURES

source

1. 37
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M0275G21"
 /clone_1ib="Mouse 10kb plasmid UUGC2M library"
 /sex="Female"
 /lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: pMD22uv. Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g114732114[db|AF129072.1]), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT

15 a 18 c 3 g 1 t

ORIGIN

Query Match 0.4%; Score 18; DB 13; Length 37;
 Best Local Similarity 100.0%; Pred. No. 1.5e+03;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 3844 tttcgtgtgtgtgtgtgtgt 3861
 |||
 Db 35 TGTGCTGTGTGTGTGTGT 18

RESULT 45

A2504337

LOCUS A2504337 38 bp DNA GSS 05-OCT-2000
 DEFINITION 1M0344C08R Mouse 10kb plasmid UUGC1M library Mus musculus genomic

ACCESSION A2504337

clone UUGC1M0344C08 R, DNA sequence.

VERSION A2504337.1

GI:10685653

KEYWORDS GSS.

house mouse.

Mus musculus

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 38)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., and Wright, D., Weis, R.
 Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
 Unpublished (2000)
 Contact: Robert B. Weis
 University of Utah Genome Center
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0344 row: C column: 08
 Seq primer: CACACAGGAAACAGCATGAC
 Class: plasmid ends
 High quality sequence stop: 38.
 Location/Qualifiers

FEATURES

source

1. 38
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC1M0344C08"
 /clone_1ib="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
 /note="Vector: pMD22uv. Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g114732114[db|AF129072.1]), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT

1 a 0 c 18 g 19 t

ORIGIN

